

ABSTRACT

An image forming apparatus comprises a photosensitive drum, a pivot inserted through the center of the photosensitive drum for rotatably supporting the photosensitive drum, and a mass body disposed at the pivot in the photosensitive drum for changing a frequency of the pivot by changing the center of gravity and the shape of the pivot. The mass body is cylindrical in shape. Accordingly, noise and vibration of a developing device, generated due to friction between rollers and the photosensitive drum, is absorbed by the mass body. The natural frequency of the pivot is changed so that amplification of noise and vibration, due to resonance of a vibration frequency and the natural frequency, can be prevented. Therefore, exacerbation of the noise and the vibration can be prevented.

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